



E-HOUSE AND PREFABRICATED SUBSTATION SPECIALISTS COMPANY PROFILE

TGOOD

Energy, Fast!

tgood.com

- Global leader in E-House and prefabricated substation solutions with the fastest manufacturing, delivery and installation times in the industry.



THE TGOOD DIFFERENCE

- > Over 7000 prefabricated substations produced annually.
- > Only focus on prefabricated substation solution globally.
- > The fastest manufacturing, delivery and installation time in the field.
- > Flexible solutions, designed according to client preferences.



> We measure delivery and installation times in weeks, not months

FASTER MANUFACTURING

Many substation solutions ready to depart factory in as little as six weeks.

FASTER INSTALLATION

Modular prefabricated substations vastly reduce on-site construction times.

FASTER CONSTRUCTION

TGOOD's professional foundation design makes construction easy and fast.

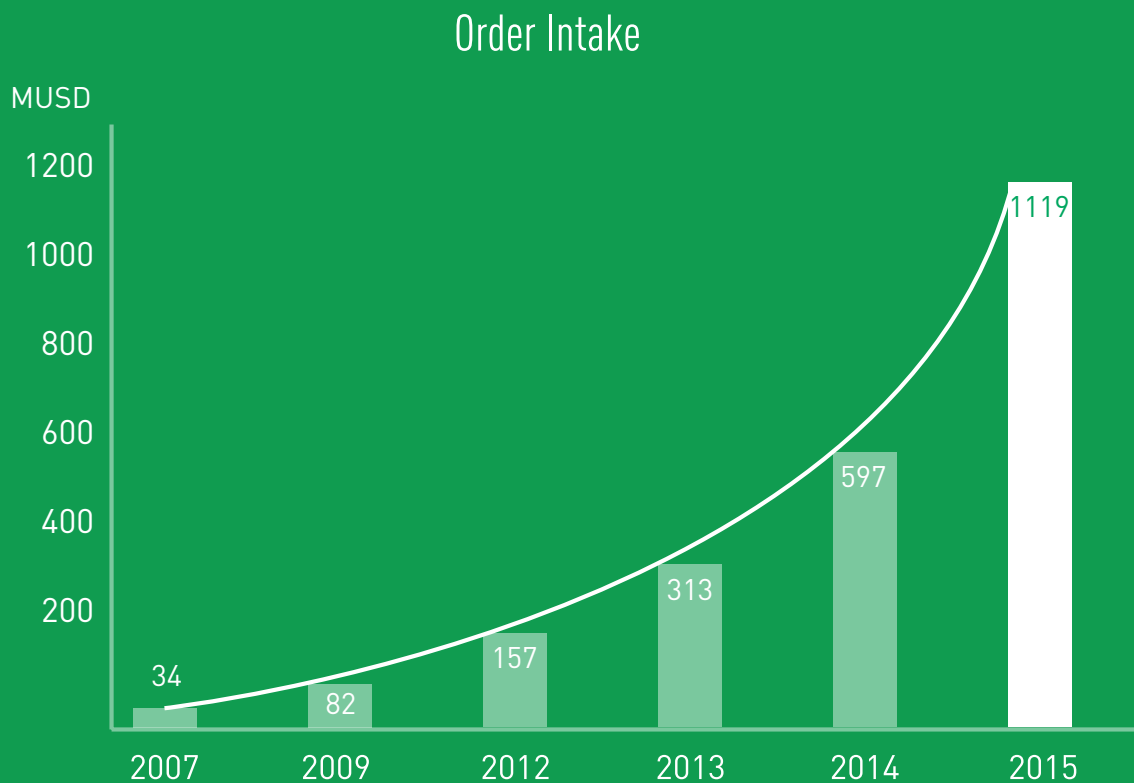
FASTER COMMISSIONING

Rigorous factory testing reduces commissioning times by an average of 50%.





➤ Founded in 2004 by a forward-thinking team of German and Chinese engineers, TGOOD has grown to become the world leader in E-House solution.



HISTORY

2004

- TGOOD founded as a Sino-German joint venture.

2009

- First company to be listed on the Shenzhen Stock Exchange, Growth Enterprise Board ("The Shenzhen NASDAQ"; 300001:CH).

2011

- Strategic partnership formed with Siemens AG to manufacture GIS RMU.
- Ranked No. 21 in Forbes China Top 100 Companies with Most Potential 2011.

2013

- Joint Venture formed with Tavrida Electric AG, worldwide leader in MV circuit protection.

2014

- TGOOD Hong Kong established as hub for globalization.
- Market presence established in South America, Australia, and Africa.
- German national Dr. Siegfried Ruhland appointed president of TGOOD.

2015

- TGOOD entered E-Vehicle charging field.
- Market presence established in Middle East, South East Asia, Central Asia.

2016

- TGOOD became the biggest E-Vehicle charging solution provider world-wide.
- Advanced energy management concepts developed based on new technology.
- Presence expanded to Mexico and Chile
- TGOOD Germany established as global R&D center.



2009: TGOOD Listed on Shenzhen Stock Exchange

TGOOD SOLUTIONS



Prefabricated Substation

PREFABRICATED SUBSTATIONS

Prefabricated substations are factory pre-assembled and tested to reduce installation, construction and commissioning times by an average of 50%. TGOOD's modular high and medium-voltage switchgear such as TGP145, THP145, TGS and TAP17 are pre-manufactured in-house to drastically reduce manufacturing and assembly times. For many applications, overall foundation designs have been proposed by TGOOD, making construction easy and fast.



Prefabricated Solar Power Substation in E-House

SWITCHGEAR E-HOUSE

TGOOD's prefabricated E-House solutions have been installed in the world's harshest outdoor operating environments. As the world leader in E-House technology, we deliver thousands of units annually to meet the demands of customers and projects around the globe.



145kV-24kV Trailer Mounted Mobile Substation

TRAILER AND SKID SUBSTATION

For temporary power solutions, emergency substation replacements and industry applications where a movable solution is required, TGOOD trailer and skid substations deliver an instant power solution. Our trailers are designed to meet US DOT and other international transportation standards where required.





国家电网
STATE GRID

110kV 城市中心智能变电站
110kV City Center Intelligent Substation
产品世界首创 技术水平国际领先

110

MODULAR SUBSTATION

The TGOOD 145kV modular substation is a patented solution, ideal for crowded cities and congested industrial zones. Employing sealed GIS modules up to 145kV, modular substations are safe to touch and provide exceptional protection against vandalism. Attractive, compact designs along with low audible noise and electric field emissions make modular substations an optimal solution for densely populated areas.



HYBRID GAS INSULATED SWITCHGEAR

TGOOD HGIS (Hybrid Gas Insulated Switchgear) technology builds upon high voltage SF₆ gas insulated breakers but incorporates air insulated busbar modules for greater affordability. HGIS results in a standalone substation component that is easy to install, has a smaller footprint than the air-insulated equivalent, and costs less than a fully gas insulated system.



GAS INSULATED SWITCHGEAR

TGOOD HV GIS utilizes maintenance-free SF₆ gas insulated breakers for an extremely compact and versatile switchgear solution for challenging, space-constrained projects. Our integrated, modular GIS eliminates much of the expense, complexity and cost associated with traditional GIS systems.

METAL-ENCLOSED SWITCHGEAR

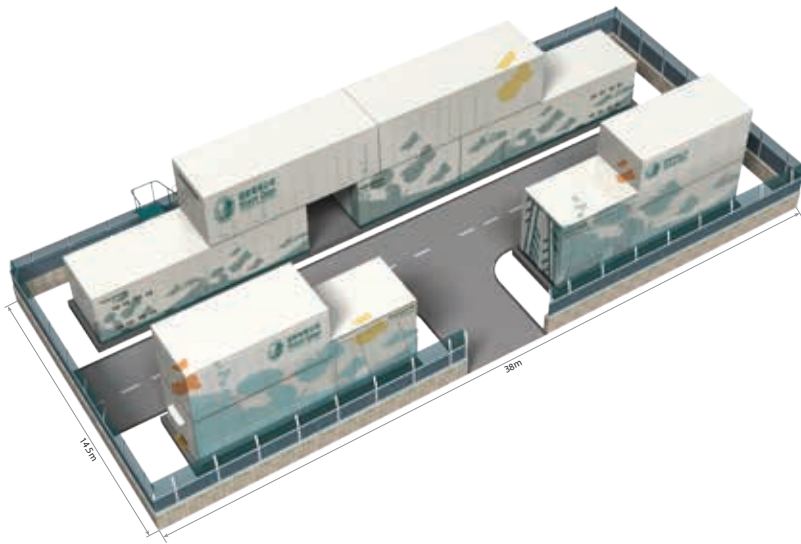
Medium voltage metal-enclosed switchgear offers innovative features to ensure safety and durability in a product ideal for space-constrained environments. Reliability and quality control are key, with each circuit breaker module type tested for up to more than 10,000 mechanical operations.

TRANSFORMERS

TGOOD offers a full suite of dry type, oil filled, and amorphous alloy core transformers as part of our prefabricated substation solutions. TGOOD transformers utilize cutting edge technology to reduce losses and eliminate routine maintenance.

> Successful history of innovative solutions

- > 2004 First railway remote substation
- > 2004 First 40.5 kV compact prefabricated substation
- > 2006 First offshore platform substation
- > 2007 First intelligent railway remote substation
- > 2007 First skid substation
- > 2008 First 110 kV urban substation
- > 2009 First coal dual power supply substation
- > 2010 First trailer substation
- > 2012 First 145 kV modular substation
- > 2013 First PV integrated substation
- > 2014 First E-vehicle group charging substation
- > 2015 First 40.5kV and 12kV PV pad-mounted substation
- > 2016 First 3x3 sections 110kV modular substation





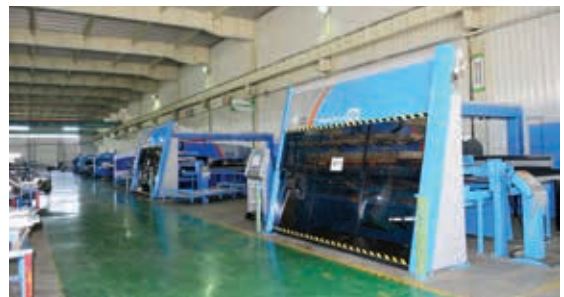
➤ TGOOD's high-capacity, ISO 9001 certified manufacturing process delivers consistent, high quality solutions with best-in-class lead times.



MANUFACTURING EXCELLENCE



- 500,000 m² production facilities.
- 4000+ employees.
- 7000+ E-House units produced annually.
- Proprietary offer includes E-House, HV GIS, HGIS, transformers, metal-enclosed switchgear, prefabricated substations, RMU, and VCB.
- Holder of over 200 patents on E-House, substation and switchgear offers and production processes.



GLOBAL PROJECT EXAMPLES



- > Industry: Forestry
- > Location: Chetwynd, BC, Canada
- > Customer: West Fraser Mills Ltd.
- > Project: Chetwynd Power Plant
- > Equipment: 25kV switchgear mounted in a prefabricated E-House, 5kV switchgear

We delight our customers with solutions that create more value than they expect

Over the past decade, we have provided prefabricated substations and E-House solutions for projects in some of the world's most remote locations and inhospitable operating environments. TGOOD's project management experience and customer focus ensure that your project is completed on-time and on-budget.



- > Industry: Transportation
- > Location: Turkmenistan
- > Customer: Government of Turkmenistan
- > Project: Ashkhabad-Turkmenbashi Railway Communication
- > Equipment: 43 sets of prefabricated substation



- > Industry: Mining
- > Location: Jeti-Oguz District, Kyrgyzstan
- > Customer: Kumtor Gold Company of Canada
- > Project: Kyrgyzstan 110kV Prefabricated Substation
- > Equipment: 110kV prefabricated substation



- > Industry: Power Generation
- > Location: Mozambique
- > Customer: Mozambique Electric Company
- > Project: Mozambique Power Generation
- > Equipment: 1 set of prefabricated substation



- > Industry: Oil and Gas
- > Location: Myanmar
- > Customer: The Government of the Union of Myanmar Ministry of Energy
- > Project: Myanmar-China Crude Oil Pipeline (Myanmar Section)
- > Equipment: 61 sets of LV switchgear; 5 sets of MV switchgear

GLOBAL PROJECT EXAMPLES



- > Industry: Oil & Gas
- > Location: Villavicencio, Meta
- > Customer: Ecopetrol
- > Project: Mobile SS 20MVA, 115/34.5/13.8kV
- > Equipment: 1 set of prefabricated substation with HGIS145, power transformer 20MVA, surge arrester, VTs, C&P panel



- > Industry: Infrastructure
- > Location: Iraq
- > Project: Intake Water Pump Station
- > Equipment: 132kV Mobile Substation
- > Delivery: 2015



- > Industry: Oil & Gas
- > Location: From Atyrau in Kazakhstan to Alashankou in China's Xinjiang
- > Customer: CNPC and the Kazakh oil company KazMunayGas
- > Project: Kazakhstan China Oil Pipeline
- > Equipment: 11x10kV prefabricated substations in 2009, 2x12kV prefabricated substations in 2011, 3x12kV prefabricated substations in 2013



- > Industry: Utility
- > Location: Linyi city, Shandong province, China
- > Customer: State Grid China Corporate (Linyi)
- > Project: State Grid China Corporate (Linyi) 110kV substation
- > Equipment: 110 kV 6 x feeders, 2 x incomers, 2 x 50 MVA transformer, 40.5kV 14 x feeders, 12 kV 10 x feeders



- > Industry: Renewable energy
- > Location: South of Anhui province, China
- > Customer: Xinyi Solar Co.Ltd
- > Project: 20MWp floating solar project
- > Equipment: 35kV house, secondary house, earthing & arc suppression house, SVG house.



- > Industry: Renewable Energy
- > Location: Empangan Ulu Sepri, Malaysia
- > Customer: Cypark Resources Berhad
- > Project: 270kW On-Grid Floating Solar Farm
- > Equipment: 1 unit of substation enclosure to house 11 nos of inverters including auxiliary systems



- > Industry: Industry
- > Location: North Adelaide in South Australia
- > Customer: Mayne pharma-Pharmaceuticals Manufacturing facility
- > Project: North Adelaide Substation Replacement
- > Equipment: 11kV RMU with metering panel

Contact us

Global Head Office

TGOOD Global Ltd.
Unit B,8/F,
Shun Ho Tower,
24-30 Ice House Street,
Central, Hong Kong
T +852 2393 8005
F +852 2393 8808
info@tgood.com

Regional Offices

North America (Canada, USA)

TGOOD North America Inc.
#3-1101 Main Street
Penticton V2A 5E6 BC
Canada
T +1 778 476 5833
north.america@tgood.com

Africa

TGOOD Africa (Pty) Ltd.
21 Roan Crescent, Unit 2, Sultana Park
Corporate Park North, Midrand, 1683
South Africa
T +27 010 010 5706
africa@tgood.com

Australia & Asia Pacific

TGOOD Australia Pty Ltd
Unit 1, 4 Henry Street
Loganholme QLD 4129 Australia
T +61 437 536 727
T 1300 061299 (within Australia)
australia@tgood.com

Europe

TGOOD Germany GmbH
Daimler street, 2, D-41836 Hueckelhoven
T +49 2433 525662
europe@tgood.com

Latin America

TGOOD Latin America SAS
Calle 116 15b-26 of 407, Bogotá, Colombia
T +5717444663
latin.america@tgood.com

Middle East and North Africa

TGOOD Middle East General Trading LLC
Emirates Concorde – Office Tower, Suite #1205
Al Maktoom Street,
Rigat Al Buteen, Deira
UAE Dubai
P.O. BOX: 413884
T +971 43454596
F +971 43454504
mena@tgood.com

Central Asia

TGOOD Central Asia LLP
7th floor, BC "Pioneer-2"
Dostyk Avenue, No 134, Almaty, Kazakhstan
P.O. BOX: 050051
T +7 727 313 0168
central.asia@tgood.com

Southeast Asia

TGOOD Southeast Asia Sdn Bhd (1167407-T)
32A Jalan 15/22,
Taman Perindustrian Tiong Nam
Seksyen 15, 40200 Shah Alam, Selangor, Malaysia
T +603 5870 1050-1053
seasia@tgood.com

Mexico

TGOOD Mexico S. de. R.L. de C.V.
Presidente Masaryk 111 Piso 1
Col. Polanco V Sección
11560 México, D.F.
T +525541705597
mexico@tgood.com

Russia

TGOOD Russia LLC
Technique Museum, Building 8, Office 411,
p.o. Arkhangelskoe, 143420 Moskovskaya oblast,
Krasnogorsk district, Russian Federation
T +7 499 110 43 28
+7 919 182 91 03
russia@tgood.com



www.tgood.com

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